

**Commonwealth of Kentucky
Division for Air Quality**

PERMIT APPLICATION SUMMARY FORM

Completed by: Sandra Cooke

GENERAL INFORMATION:

Name:	Saturn Machine & Welding, Inc.
Address:	P.O. Box 68, Sturgis, Kentucky 42459
Date application received:	04/19/04
SIC/Source description:	3490/Misc. Fabricated Metal Parts
Source ID #:	21-225-00028
Source A.I. #:	4079
Activity #:	APE20040001
Permit number:	F-07-008

APPLICATION TYPE/PERMIT ACTIVITY:

<input type="checkbox"/> Initial issuance	<input type="checkbox"/> General permit
<input type="checkbox"/> Permit modification	<input checked="" type="checkbox"/> Conditional major
__Administrative	<input type="checkbox"/> Title V
__Minor	<input type="checkbox"/> Synthetic minor
__Significant	<input type="checkbox"/> Operating
<input checked="" type="checkbox"/> Permit renewal	<input type="checkbox"/> Construction/operating

COMPLIANCE SUMMARY:

<input type="checkbox"/> Source is out of compliance	<input type="checkbox"/> Compliance schedule included
<input type="checkbox"/> Compliance certification signed	

APPLICABLE REQUIREMENTS LIST:

<input type="checkbox"/> NSR	<input type="checkbox"/> NSPS	<input type="checkbox"/> SIP
<input type="checkbox"/> PSD	<input type="checkbox"/> NESHAPS	<input checked="" type="checkbox"/> Other
<input type="checkbox"/> Netted out of PSD/NSR	<input type="checkbox"/> Not major modification per 401 KAR 51:001, 1(116)(b)	

MISCELLANEOUS:

- ☐ Acid rain source
- ☐ Source subject to 112(r)
- ☒ Source applied for federally enforceable emissions cap
- ☐ Source provided terms for alternative operating scenarios
- ☐ Source subject to a MACT standard
- ☐ Source requested case-by-case 112(g) or (j) determination
- ☐ Application proposes new control technology
- ☐ Certified by responsible official
- ☐ Diagrams or drawings included
- ☐ Confidential business information (CBI) submitted in application
- ☐ Pollution Prevention Measures
- ☐ Area is non-attainment (list pollutants):

EMISSIONS SUMMARY:

Pollutant	Actual (tpy)	Potential (tpy)
PM/PM ₁₀	22.983	22.983
Xylene	Voluntary Limit < 9	33.459
Benzene	6.262	6.262
Any Individual HAP	Voluntary Limit < 9	N/A
Source wide HAPs	Voluntary Limit < 20	56.21

SOURCE DESCRIPTION:

Saturn Machine & Welding, Inc. designs and fabricates coke oven equipment. Various steels are cut, machined and welded to fabricate the equipment. The finished equipment is then sandblasted and painted. Operations consist predominately of equipment that heats metal parts to the required temperature. After a predetermined period of time the metal parts are placed in a quench tank and cooled slowly to attain the desired hardness. Vapors from the quench tank are emitted from a forced air vent in the side of the building.

EMISSIONS AND OPERATING CAPS DESCRIPTIONS:

To preclude Title V and MACT applicability, the permittee has taken a voluntary limit of 9 tons per year for any individual HAP and maximum total of combined HAPs emissions under 20 tons in a rolling 12-month period. If the permittee exceeds these limits, the facility will become subject to 40 CFR PART 63, NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES, Subpart M, National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products, and must comply with all requirements of this subpart.

OPERATIONAL FLEXIBILITY: NA